

10/021,423

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PD-200035 (BOE 0117 PA)

In the Specification:Kindly replace paragraph [0005] with the following:

A1 [0005] Prior art linearizers have primarily relied on diodes and field effect transistors (FETs) as the nonlinear element within a mechanically tuned circuit to simultaneously match both gain and phase responses. Diode-based linearizers are hybrid modules with many separate parts that need to be individually soldered. Unfortunately, this results in a large and heavy linearizer with less ~~that~~ than desirable electrical performance. Additionally, to achieve simultaneous gain and phase match, excessive amounts of manual tuning is required, and once the tuning process is completed, the linearizer's characteristics are fixed permanently.

Kindly replace paragraph [0008] with the following:

A2 [0008] In accordance with the objects of this invention... Each gain can be adjusted separately to ~~product~~ produce a large range of linearization characteristics.

Kindly replace paragraph [0020] with the following:

[0020] An RF power detector 28, ... The RF power detector 28 may be either realized as a diode ~~of~~ or as a logarithmic amplifier....

Kindly replace paragraph [0021] with the following:

A3 [0021] Referring to FIGURE 3,... By ~~connection~~ connecting the collectors of both VGAs 22, 24 to a single load resistor, the outputs are summed.